

AMENDMENTS TO THE CLAIMS

1. (Original) An object model for capturing information related to product innovation-related data, comprising:
a product idea interface for capturing an idea for a product in a product idea object;
and
a design alternative interface for capturing a plurality of design alternatives for said product in a plurality of respective design alternative objects.
2. (Original) An object model in accordance with claim 1, comprising:
a product requirement interface for capturing a requirement for said product idea in a product requirement object.
3. (Original) An object model in accordance with claim 2, comprising:
a product function interface for capturing a function for fulfilling said product requirement in a product function object.
4. (Original) An object model in accordance with claim 3, comprising:
a product fulfillment interface which captures how well said product function fulfills said product requirement.
5. (Original) An object model in accordance with claim 1, comprising:
a design representation interface for capturing a representation of said design alternative in a design representation object.
6. (Original) An object model in accordance with claim 1, comprising:
a decision interface for capturing a decision in a product requirement object, said decision relating to one of said product idea or said design alternative.
7. (Original) An object model in accordance with claim 1, wherein:
each of said product idea object and said design alternative objects are stored in a tool-neutral persistent form.
8. (Original) An object model in accordance with claim 2 comprising:
each of said product idea object, said design alternative objects, and said product requirement objects are stored in a tool-neutral persistent form.

9. (Original) An object model in accordance with claim 5, comprising:
each of said product idea object, said design alternative objects, and said design
representation objects are stored in a tool-neutral persistent form.
10. (Original) A method for capturing information related to product innovation-
related data, comprising:
capturing an idea for a product in a product idea object; and
capturing a plurality of design alternatives for said product in a plurality of respective
design alternative objects.
11. (Original) A method in accordance with claim 10, comprising:
capturing a requirement for said product idea in a product requirement object.
- A1 12. (Original) A method in accordance with claim 11, comprising:
capturing a function for fulfilling said product requirement in a product function
object.
13. (Original) A method in accordance with claim 10, comprising:
capturing a representation of said design alternative in a design representation object.
14. (Original) A method in accordance with claim 10, comprising:
capturing a decision in a decision object, said decision relating to one of said product
idea or said design alternative.
15. (Original) A method in accordance with claim 1, comprising:
storing each of said product idea object and said design alternative objects in a tool-
neutral persistent form.
16. (Original) A method in accordance with claim 11, comprising:
storing each of said product idea object, said design alternative objects, and said
product requirement objects in a tool-neutral persistent form.
17. (Original) A method in accordance with claim 13, comprising:
storing each of said product idea object, said design alternative objects, and said
design representation objects in a tool-neutral persistent form.

18. (Original) A computer readable storage medium tangibly embodying program instructions implementing a method for capturing information related to product innovation-related data, the method comprising the steps of:

capturing an idea for a product in a product idea object; and
capturing a plurality of design alternatives for said product in a plurality of respective design alternative objects.

19. (Currently Amended) The computer readable storage medium of claim 18, the method comprising:

storing each of ~~storing each of~~ said product idea object and said design alternative object in a tool-neutral persistent form.

20. (Original) The computer readable storage medium of claim 18, the method comprising:

capturing a requirement for said product idea in a product requirement object;
capturing a representation of said design alternative in a design representation object;
and

storing each of said product idea object, said design alternative object, said product requirement object, and said design representation object in a separate relational database, wherein associations between each of said product idea object, said design alternative object, said product requirement object, and said design representation object are captured using foreign keys.

21. (New) A system for managing a product design process, the system comprising:

a product idea object encapsulating information related to a conception of a product being designed according to said product design process;

product requirement objects encapsulating requirements to be fulfilled by said product;

design alternative objects encapsulating multiple designs that represent a solution corresponding to said product idea object; and

a requirement fulfillment interface for facilitating queries related to levels of fulfillment of requirements encapsulated in said product requirement objects by alternative designs encapsulated in said design alternative objects.

22. (New) The system of claim 21 wherein said product requirement objects encapsulate priority information and said requirement fulfillment interface processes said priority information to facilitate said queries.

23. (New) The system of claim 21 further comprising:
a product requirement decision interface for storing and retrieving information associated with decisions related to requirements encapsulated within said product requirement objects.

A1 24. (New) The system of claim 21 further comprising:
product function objects encapsulating information associated with functionality of design alternative objects corresponding to requirements encapsulated within the product requirement objects.

25. (New) The system of claim 24 further comprising:
a product function decision interface for storing and retrieving information associated with decisions related to functionality selected for said design alternative objects.
